



Release Notes

NovaStor DataCenter Version 7.1

January 2018

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What's new in NovaStor DataCenter v7?

NovaStor DataCenter exceeds customer requirements and expectations by efficiently protecting physical and virtual environments running Windows, Linux, and other operating systems with one single application. Support for the storage hardware of your choice, independent of manufacturer or vendor, means convenience and affordability which won't break the bank.

IT managers in mid-sized organizations are often responsible for the complete IT Infrastructure management. In order to best support IT managers to manage the backup beside the flood of other tasks, we have optimized NovaStor DataCenter for ease of use.

New features and an additional Web-based user interface allow IT managers to actually hand over daily monitoring and restore tasks to non-IT colleagues in the organization.

- **Web-based User Interface**

- A new modern web based user interface has been added to the current central management user interface.
- Departments can perform simple restores and other day-to-day business tasks independently.
 - Helps the IT manager to distribute daily workload for monitoring and individual restore of files and folders on demand to dedicated non-IT colleagues.
- Multi-client capable and multilingual.

- **Disc Selection for VMware Backups**

- "Independent" or "shared" disks can now easily be excluded from VM's selected in a VMware Backup job.
- This way, virtual disks used by multiple VM's can be backed up once.
- Greatly reduces Backup Windows and required Backup storage space.

- **1-Click --Diagnostic Collector**

- 1-Click collects all-important NovaStor and System Logs of the selected system and store it to a handy ZIP file container.
- Saves expensive time to identify and solve support requests
- NovaStor support can help much faster and systematically take additional measures to quickly resolve the request.

- **Improved License Management**

- With NovaStor DataCenter Version 7, License Management becomes more flexible and convenient.
- One single license for all business models and Infrastructure requirements.
- No new license required on license upgrades by any measure.
- Saves valuable time and effort on both sides of the customer and NovaStor

Version 7.1 (January 2018)

Improvements, Features and Enhancements

- DC-3778 Added GIR Backup support for Hyper-V 2008R2 / 2012
- DC-4330 Added data usage overview dialog to report manager
- DC-4327 Optimized License Server handling
- DC-4282 Mark old Nodes with too low RCMD version in nodes management
- DC-3709 Added hostname for the maintenance info in the dashboard

Notable Resolved Issues

- DC-3703 Resolved insufficient error messages when using library already in use
- DC-4293 Resolved failed Cluster VM`s Backups
- DC-4276 Fixed Execution plan CMD scripts to properly convert during version upgrades
- DC-4275 VMware: "Edit job" may claim that VMs not existing anymore / Not all VMs listed
- DC-4268 VMware: Adding vCenter Host to proxy may fail with "Could not add VMware proxy"
- DC-3467 VMware backup to standard pools: Transport mode cannot be chosen
- DC-3456 VMware: selection list for restore into VM is in an old state
- DC-2939 VMware: backup/replication/restore will fail if data store name contains an "&"
- DC-4265 Layout problem in error dialog
- DC-3787 Jobs in execution plan sometimes wasn't be triggered correctly
- DC-3700 Resetting of table filter criteria in reports fails
- DC-3609 Hyper-V restore to different server: Pre-check missing if selected destination folder is empty
- DC-3540 CentOS7: Executor start error
- DC-3477 Storage Mgmt: Null Pointer exception while attaching Tape Library
- DC-3413 TLM LNX: Impossible to label scratch pool
- DC-3377 TLM: Casting error when creating library partition
- DC-3376 Storage Mgmt: NullPointerException when reattaching Library
- DC-3251 Security code should be logged into server side account.log instead of client Hiback.log
- DC-3213 Backup with 2 Media Pools: switch to 2nd Media Pool not working
- DC-3122 dc-ejb.log full of <EXCEPTION>
[de.novastor.dc5.ejb.PeriodicalServiceEJB.taskPlanExecutor] null
- DC-2817 Exchange Backup: Hiback gets SIGSEGV and vssdba takes 100% CPU

Known Issues

- DC-4302 VMware: Disk selection not available when connected to an ESX(i)
- DC-4300 DataCenter installation/uninstallation is recognized as Ransomware by BitDefender
- DC-3594 Storage Mgmt: Merge backups do not create synthetic savefiles

Version 7.0 (November 2017)

Improvements, Features and Enhancements

- Web-based User Interface
- Disc Selection for VMware Backups
- 1-Click --Diagnostic Collector
- Improved License Management

Notable Resolved Issues

- NBKENGINE-3128 Installation: CmdSvr Installer throws a warning regarding firewall
- NBKENGINE-3605 DC7 display error when configuring a firewall on w2008 with firewall OFF
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3564 Backup File: 2nd Media Pool is not selectable for Full Backup Target in case of "Backup Scheme = 'Full-Inc' or 'Full-Diff' "
- NBKENGINE-3567 After starting a VMware backup job with a lot of sub jobs, it is not possible to cancel them.
- NBKENGINE-3627 Installation: Install of DC submodules into custom folders may fail on Ex2010/W2008
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3652 Duplicate Job Not Grayed Out When Selecting Blank Space
- NBKENGINE-3656 VMware GIR diff backup fails: An unexpected error occurred (0xC000002C)
- NBKENGINE-3658 dc-ejb.log shows remote install password
- NBKENGINE-3661 VMware backups end prematurely, but vmware.exe still runs
- NBKENGINE-3662 File job ends prematurely, Hiback still runs and ends without error
- NBKENGINE-3664 Make mail report template more flexible
- NBKENGINE-3704 Corrected global file set FULL_LINUX_localdrives
- NBKENGINE-3739 HUI: very slow restore browsing
- NBKENGINE-3542 Installation: Got an error message at Startup Wizard
- NBKENGINE-3543 VDDK Log File Size
- NBKENGINE-3534 BMR: Support ADK for Windows 10 (1703) added
- NBKENGINE-3390 DataCenter Linux (GUI): several error messages
- NBKENGINE-3469 VMware: Restore to origin destination fails if VM name is >= 80 chars and origin VM exists
- NBKENGINE-3480 VMware: Restore fails if target VM name, containing an %, already exists
- NBKENGINE-3482 VMware: Restore mounted volumes with InvocationTargetException
- NBKENGINE-3490 Installation: Client Installer uses wrong port for Web GUI
- NBKENGINE-3499 Restore: User needs unexpected right to restore from backup server via alias
- NBKENGINE-3510 GUI: "Restore" buttons erroneously activated
- NBKENGINE-3544 Dashboard: Optimize media pool loading mechanism
- NBKENGINE-3511 Restore File: Missing exit code and error message

- NBKENGINE-3516 Configuration: Test emails or Report emails are not sent
- NBKENGINE-3531 GUI: Integrate new icons
- NBKENGINE-3429 BMR: ISO to USB conversion does not work
- NBKENGINE-3554 Storage Mgmt. LNX: Retention jobs may cause hanging DC Systems under Linux
- NBKENGINE-3257 Problems with CRP
- NBKENGINE-3500 Nodes Mgmt.: Adding a new node will not fill out the virtual server flag
- NBKENGINE-3446 Describe OpenEJB audit.log configuration
- NBKENGINE-3314 TaskExecutionPlans wrong handling missing exit codes
- NBKENGINE-3334 File Restore: original media pool not shown in source options
- NBKENGINE-3176 Hyper-V: Custom path starting with "C:\tmp" parsed incorrectly
- NBKENGINE-3205 TLM LNX: Retention deletes list file regardless of retention time
- NBKENGINE-2624 The report sent by email is malformed.
- NBKENGINE-2366 NodeManagement and Execution Plans: hostname mismatch leads to malfunction
- NBKENGINE-2539 Restore: very slow browsing of backups with SPL=8 and SkipMountpoint=no

Known Issues

- NBKENGINE-3751 Collection of diagnostics fails with trying to download the zip file from a 127.x.x.x address.
- NBKENGINE-3676 Installation: Login not possible when DC has been installed in a directory containing special characters.
- NBKENGINE-3648 SQL: Backup/Restore may fail with DBs named with special-characters
- NBKENGINE-3579 Hyper-V backup to standard pool: "Saved State" shown as "offline" instead of "online". Please use GIR pools.

NovaStor DataCenter Version 6 Release Notes

In order to provide you with a complete history, following you will find the major highlights of the previous major Version 6 along with the details of all respective dot-releases.

- **Hyper-V Incremental**
This feature introduces Incremental Backup Jobs to Granular Item Recovery Pools for Virtual Machines under Microsoft Hyper-V.
- **Improved Retention runtime**
Significantly improved execution time of NovaStor's retention algorithm.
- **Exclude VMs from "All VMs" VMware backup job**
This feature allows excluding single VMs for VMware "all VMs" option.
- **Backup: Add job duplication function to the context / window menu**
Easily duplicate backup jobs via context menu, not just with a keyboard shortcut.
- **Improved stability of the Backup/Command-Server**
Especially with large amounts of data that are generated by VM-Backups, it's very important to ensure the stability of the server. Intelligent management of the processes was added to ensure the stability of the system even several access-intensive backup or retention jobs are running at the same time.

Version 6.4.7 (September 2017)

Notable Resolved Issues

- NBKENGINE-3722 Hyper-V: Backup Type "All VMs" does not start up.
Creating a Hyper-V backup job to a GIR pool that includes "All VMs" did not start if the job was configured for incremental backup. Backup jobs that do a full backup were not affected.
- NBKENGINE-3737 Hyper-V GIR pool restore fails if restored to root path
Restoring a Hyper-V backup from a GIR pool to a root path (e.g. c:\) failed with an error. Now the virtual disks are restored to the selected root path and the configuration is put in a directory "Configuration".
- NBKENGINE-3740 Hyper-V restore from alternate pool does not work
- NBKENGINE-3742 Hyper-V GIR pool restore from alternate pool passes wrong pool ID
- NBKENGINE-3661 VMware backups end prematurely, but VMware.exe still runs.
A log truncation issue has been fixed. In some cases logs of jobs (e.g. backup) were fetched prematurely. This was leading to jobs being marked erroneously as failed even though the backup has been successfully completed but the user were not able to restore from that backup.
- NBKENGINE-3540 CentOS7: Executor start error

Known Issues

- NBKENGINE-3609 Hyper-V restore to different server: Pre-check missing if selected destination folder is empty
- NBKENGINE-3548 VMware restore: GIR button enabled on disc pool backup
- NBKENGINE-3554 Retention jobs may cause hanging DC Systems under Linux
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3652 Duplicate Job not greyed out when selecting blank space

Version 6.4.6 (August 2017)

Notable Resolved Issues

- NBKENGINE-3661 VMware backup ends prematurely, but VMware.exe still runs
- NBKENGINE-3662 File job ends prematurely, Hiback still runs and ends without error
- NBKENGINE-3668 "Access denied" after update to 6.4.2
- NBKENGINE-3683 File Jobs stay in Pending status until they are finished

Known Issues

- NBKENGINE-3548 VMware Restore: GIR button is enabled on disc pool backup
- NBKENGINE-3554 Retention jobs may cause hanging DC Systems under Linux
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3609 Hyper-V restore to different server: Missing Pre-check if selected destination folder is empty

Version 6.4.5 (August 2017)

Notable Resolved Issues

- NBKENGINE-3573 Installing DC7 on an existing Cmd-Server with nonstandard port ignores settings
- NBKENGINE-3656 VMware GIR diff backup fails: An unexpected error occurred (0xC000002C)
- NBKENGINE-3658 dc-ejb.log shows remote install password
- NBKENGINE-3661 VMware backups end prematurely, but VMware.exe still runs
- NBKENGINE-3662 File job ends prematurely, Hiback still runs and ends without error

Known Issues

- NBKENGINE-3548 VMware Restore: GIR button is enabled on disc pool backup
- NBKENGINE-3554 Retention jobs may cause hanging DC Systems under Linux
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3652 Duplicate Job not greyed out when selecting blank space
- NBKENGINE-3609 Hyper-V restore to different server: Pre-check missing if selected destination folder is empty

Version 6.4.4 (July 2017)

Notable Resolved Issues

- NBKENGINE-3638 Hyper-V: Incremental backup of VM's with VHD disks fails with VSS error

Known Issues

- NBKENGINE-3548 vmware restore: GIR button enabled on disc pool backup
- NBKENGINE-3554 Retention jobs may cause hanging DC Systems under Linux
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3652 Duplicate Job Not greyed Out When Selecting Blank Space
- NBKENGINE-3609 Hyper-V restore to different server: Pre-check missing if selected destination folder is empty

Version 6.4.3 (July 2017)

Notable Resolved Issues

- NBKENGINE-3566 Hyper-V: vsshv/exvmconf communication fails
- NBKENGINE-3564 Backup File: 2nd Media Pool is not selectable for Full Backup Target in case of "Backup Scheme = 'Full-Inc' or 'Full-Diff' "

Known Issues

- NBKENGINE-3548 VMware restore: GIR button enabled on disc pool backup
- NBKENGINE-3635 Nodes Mgmt: UpdateNode->ShowInstalledVersions shows version UNKNOWN
- NBKENGINE-3652 Duplicate Job Not Greyed Out When Selecting Blank Space
- NBKENGINE-3609 Hyper-V restore to different server: Pre-check missing if selected destination folder is empty

Version 6.4.2 (June 2017)

Notable Resolved Issues

- NBKENGINE-3505 Maintenance: hundreds of notification mail duplicates
- NBKENGINE-3508 Jobs may be missing in Reporting and Restore
- NBKENGINE-3520 Sys Env: command server immediately takes tremendous resources
- NBKENGINE-3530 Nodes Mgmt: Cluster configuration issues
- NBKENGINE-3535 GUI: Prevent renaming backup jobs to existing names
- NBKENGINE-3541 Single File Restore ends too soon
- NBKENGINE-3525 Backup: Add job duplication function to the context / window menu
- NBKENGINE-3358 Nodes Mgmt: Adding a cluster server leads to duplicate entries in Nodes Mgmt
- NBKENGINE-3061 Monitoring: RCMD thread usage and deadlock
- NBKENGINE-2539 Restore: very slow browsing of backups with SPL=8 and SkipMountpoint=no

Known Issues

- NBKENGINE-3548 VMware Restore: GIR button is enabled on disc pool backup
- NBKENGINE-3554 Retention jobs may cause hanging DC Systems under linux

Version 6.4.1 (May 2017)

Notable Resolved Issues

- NBKENGINE-3512 exvmconf dump-disk-config lacks cluster support

Version 6.4 (April 2017)

Improvements, Features and Enhancements

- NBF-78 Hyper-V Incremental Backup
- NBF-37 Windows Server 2016 Support
- NBF-195 Hyper-V MK2 Support
- NBF-424 Backup: use a second mediapool as fallback
- NBKENGINE-3319 Exclude VMs from "All VMs" VMware backup job

Notable Resolved Issues

- NBKENGINE-3471 ExecutionPlan: local script panel contains wrong unnecessary tooltip
- NBKENGINE-3361 Retention job on large environments cause severe resource issues
- NBKENGINE-3428 Hyper-V VMs with unicode names not displayed correctly
- NBKENGINE-3364 _ is invalid character for regular disk pool name
- NBKENGINE-3360 Diskpool: setting retention=0 in GUI removes retention entry in diskpool file
- NBKENGINE-3348 Exchange restore fails, because it wants to fix HyperV
- NBKENGINE-3341 Storage Management: error while creating DiskPool
- NBKENGINE-3340 HyperV add clustersupport for exvmconf.exe
- NBKENGINE-3338 ee7-rest-api___2739 -> Installer -> Webserver is missing
- NBKENGINE-3324 rcmd-executor appcrash c0000005/0000000000001998f
- NBKENGINE-3322 VMware 'All VMs' GIR backup job does not refresh VM list at runtime
- NBKENGINE-3321 Copy of VMware job resets transport mode to HOTADD
- NBKENGINE-3318 VTL: rcmd temp files left in /Hiback/tape
- NBKENGINE-3312 Hyper-V granular item restore shows empty volume list
- NBKENGINE-3307 Derby DB Out of Memory Error: raise java option -Xmx from 512 to 1024
- NBKENGINE-3306 Hyper-V: vsshv fails to backup Hyper-V machines
- NBKENGINE-3302 Storage Management: Create disk pool with activated erase existing SV fails
- NBKENGINE-3292 Hyper-V: Failing GIR backup does not tidy up properly
- NBKENGINE-3291 Hyper-V: GIR Backup fails for non-Windows Unicode Machines

- NBKENGINE-3285 GIR pool maintenance fails with "Your Windows version does not support VHDs"
- NBKENGINE-3283 GIR Pool Maintenance: Save the Zombies
- NBKENGINE-3280 Hyper-V DBA Files wont get deleted on rescan inventory
- NBKENGINE-3278 Nodebrowser: files of size less than 1 KB are shown as 0 KB
- NBKENGINE-3276 Make node to Backup Server issues: "Edit Comment" dialog; On Linux: Invalid plugin function
- NBKENGINE-3265 Hiback cannot start systemstate-backup via WBADMIN on Win2016
- NBKENGINE-3261 GIR pool pool.db error handling improvements
- NBKENGINE-3251 Security code should be logged into server side account.log instead of client Hiback.log
- NBKENGINE-3220 Windows Hiback generates incorrect path of symbolic link
- NBKENGINE-3210 possible race condition in rcmd tmp file manager causing app crash
- NBKENGINE-3208 remote execution problem in hiserv
- NBKENGINE-3202 Hyper-V: vsshv can not backup virtual machines with " (quotes) in their names
- NBKENGINE-3188 BMR: ISO image creation fails
- NBKENGINE-3181 VMware: Replication backup job fails with transport mode HOTADD
- NBKENGINE-3171 Security: Implement Enhanced Restore Security in Hiback/WIN
- NBKENGINE-3170 Hyper-V: DCWMI does not properly handle VM configurations with several SCSI/IDE-controllers
- NBKENGINE-3165 Hyper-V: GIR pool restore to other drive as origin is successful, but cfg is missing
- NBKENGINE-3164 Hyper-V: DiskPool - DBA-Restore to other drive as origin fails
- NBKENGINE-3163 Hyper-V: GIR saved restore of Hyper-V VM W10 on W2008R2 fails
- NBKENGINE-3162 Hyper-V: Lacking of disk capacity, DC crashes after abort of hanging restore job
- NBKENGINE-3161 Hyper-V: vsshv - Cancelled backup job is marked as successful
- NBKENGINE-3144 Hyper-V: After GIRPool Restore the VM config file is missing
- NBKENGINE-3140 Storage Management: Potential nullptr access in libnbsa/nbksrv
- NBKENGINE-3136 Hyper-V: vsshv hangs waiting for nbksrv on w2008
- NBKENGINE-3133 Service Account: Changing Service Account in Nodes view gives error
- NBKENGINE-3114 Seperate Network GUI Installer
- NBKENGINE-3097 Restore: HiBack fails to find savefile if SV name is given via fileset
- NBKENGINE-3095 Hyper-V: DCWMI import ignores relation between controller/disk under certain conditions
- NBKENGINE-3092 Nodes Management: No mouseover in nodes management
- NBKENGINE-3090 Hyper-V: Fix fails with imexdir = root-drive
- NBKENGINE-3079 User management: monitoring misses active jobs (organization)
- NBKENGINE-3066 Hyper-V: Restore to alternative directory - issue with Backslash in string
- NBKENGINE-3060 Hyper-V: Vsshv restore of Hyper-V VM with snapshots fails
- NBKENGINE-3057 Hyper-V: Restore of a DOS-VM with snapshots complains about missing files
- NBKENGINE-3056 rcmd-executor crash
- NBKENGINE-3052 Hyper-V: WMI-HyperV-import puts VM-configuration files in PROGRAMDATA ...
- NBKENGINE-3044 Hyper-V: Restore of an "online" VM with checkpoints requires additional manual work (wrong VM-config)
- NBKENGINE-3033 Handling: backup server activation gets lost

- NBKENGINE-3030 Hyper-V: Vsshiv check backup/restore of HostComponent
- NBKENGINE-3024 Hyper-V: Hyper-V VM restore remains "Starting"
- NBKENGINE-3018 Hyper-V: Vsshiv backup of VMs with snapshots has wrong filesizes and monitoring
- NBKENGINE-3011 Hyper-V: Restoring a Hyper-V backup job to a cluster node gives an error with error code 0x80004005
- NBKENGINE-3009 Localization: EN
- NBKENGINE-3006 Remote install monitoring does not handle on error case
- NBKENGINE-2997 reporting details window shall have 128 char width
- NBKENGINE-2994 Hyper-V: vssdba -dc ms-hyperv does not create DBA files for clusterd vms
- NBKENGINE-2992 Hyper-V: Vsshiv does not automatically create DBA-files for VMs on a Cluster
- NBKENGINE-2984 TLM: Remove media pool fails
- NBKENGINE-2975 Hyper-V: Cluster 2012R2: missing component
- NBKENGINE-2942 Hyper-V: nbksrv must support VHD-files with unicode-filenames
- NBKENGINE-2941 Hyper-V: Vsshiv fails with backup of a VM-name with non-ascii-charactes.
- NBKENGINE-2898 Disk pool: creation possible with non-functional naming convention
- NBKENGINE-2857 TLM: tapemac --mmcheck dies unexpectedly
- NBKENGINE-2733 Hyper-V backup mount fails on non-NTFS GIR pools
- NBKENGINE-2728 Hiback/Windows find-search results differ between 9.3.2 and 9.5.5
- NBKENGINE-2689 Hyper-V: Cluster 2012R2: restore of deleted VM fails
- NBKENGINE-2668 MediaCheck fails with "No such entry" and "Data: mmf"
- NBKENGINE-2640 Exchange: "Media Check" misses original backup if backing, e.g., Exchange or Hyper-V from cluster server
- NBKENGINE-2568 Hyper-V: Multiple simultaneous Hyper-V jobs from a cluster or single server fails to backup more than one job at a time.
- NBKENGINE-2559 Maintenance operations should not delete files if the clone target is unavailable

Version 6.2.2 (January 2017)

Improvements, Features and Enhancements

- NBKENGINE-3319 Workaround: Cannot exclude VMs from "All VMs" VMware backup job

Notable Resolved Issues

- NBKENGINE-2994 Hyper-V: vssdba -dc ms-hyperv does not create DBA files for clusterd vms
- NBKENGINE-3275 Handle moved VMs in backup job for HyperV cluster
- NBKENGINE-2962 Hyper-V: Cluster 2008: VM hv-menu service is not member of cluster

Version 6.2.1 (October 2016)

Improvements, Features and Enhancements

- NBF-83 NovaBACKUP Granular Restore
- NBF-60 NAS Target

Notable Resolved Issues

- NBKENGINE-3047 function runlist.destroy in libvhd.dll crashes application.
- NBKENGINE-3076 Hyper-V: DBA-restore needs description of import-procedures
- NBKENGINE-3086 Hyper-V: almost complete restore fails due to false "VM already exists" message
- NBKENGINE-3145 Hyper-V: Backup fails due to WMI System.MethodAccessException
- NBKENGINE-3157 Hyper-V: GIR Pool Restore fails
- NBKENGINE-3049 GIR-restore fails if the VM is completely lost, eRors creating .VHDX-files.
- NBKENGINE-3070 Hyper-V: Restore Ubuntu in state "saved" fails
- NBKENGINE-3098 DiskPool: Restore to other directory failed
- NBKENGINE-3105 DiskPool: Restore fails due to path issue
- NBKENGINE-3108 Hyper-V: GIR Restore fails, VM exists, but DCWMI says no
- NBKENGINE-3118 Hyper-V: Restore fails due to missing file with save-state information
- NBKENGINE-3138 Hyper-V: DBA restores not possible because of missing meta-data
- NBKENGINE-3139 Hyper-V: Incremental backup must be disabled in DC
- NBKENGINE-3143 Hyper-V: Cannot import VM after DBA restore (due to attribute)
- NBKENGINE-3149 Hyper-V: Backup: DCWMI complains about VM-target-info
- NBKENGINE-3158 Hyper-V: DiskPool - manual import throws an eRor message
- NBKENGINE-3178 Adapt rcmd build scripts for jenkins pipeline cd
- NBKENGINE-3140 Storage Management: Potential nullptr access in libnbsa/nbksrv
- NBKENGINE-3119 Hyper-V: "All VMs" jobs to GIR remains in "pending" state
- NBKENGINE-3156 Update: Command Server update on an Ubuntu Linux x64 bit machine may fail
- NBKENGINE-3167 Monitoring: DC monitoring kill does not work, rcmd cannot find WAT-file
- NBKENGINE-3073 Solaris: RCMD: ERor loading core plugin
- NBKENGINE-3180 Exchange backup is marked as HyperV-backup
- NBKENGINE-3190 Diskpool drops clonetarget with edit (default address is ip)
- NBKENGINE-2984 TLM: Remove mediapool fails
- NBKENGINE-2962 Hyper-V: Cluster 2008: VM hv-menu service is not member of cluster
- NBKENGINE-3094 VMware: VMs stored via "All [active/inactive]" aren't available for restore
- NBKENGINE-3148 Multiplexer: set restart on eRor as default setting
- NBKENGINE-3137 SQL: Restore: Try using absolute path for pipedump command
- NBKENGINE-2969 User Manual: no german language available
- NBKENGINE-3103 Media import fails with "user is not logged in" for user with limited rights
- NBKENGINE-3174 vssdr.exe: VSS provider choice
- NBKENGINE-3175 vssdr.exe: ignore volume bitmap mismatches
- NBKENGINE-3182 Storage Management: create GIR pool on Linux fails
- NBKENGINE-3187 Nodes Management: activation of Linux as a backup server impossible
- NBKENGINE-3023 Installation: Solaris/SPARC installer names

- NBKENGINE-3036 Hyper-V: Restore from GIR-pool fails when pool is locked
- NBKENGINE-3112 delete VM-dir after backup because it can use considerable disk-space
- NBKENGINE-3135 SQL Restore: restore button missing when BAK file destination directory is doesn't exist
- NBKENGINE-3074 DCWMI with vm-info fails at customers-site
- NBKENGINE-3084 Hyper-V: Vsshv does not create DBA-files with a unique pipename
- NBKENGINE-2920 Hyper-V: vsshv backup fails, but is committed
- NBKENGINE-3051 Hyper-V: DCWMI cannot export a VM with names containing special characters like (: |\?)
- NBKENGINE-2857 TLM: tapemac --mmcheck dies unexpectedly
- NBKENGINE-2938 STP: Wrong tape label (volser) when cloning to STP (Single Tape Pool)
- NBKENGINE-2885 MediaCheck: single tape and STP clones are not shown
- NBKENGINE-2674 Installation: Command Server install fails on Ubuntu 15.04+ as systemd is default (instead of upstart)
- NBKENGINE-2681 Hyper-V: Restore still fails under some conditions, import VM throws eRors
- NBKENGINE-2609 TLM: Unable to create media pool in linux GUI
- NBKENGINE-2506 Hyper-V: Restore with destination (non-GIR)
- NBKENGINE-2725 hijacc hiserv has no socket connection in a upstart service environment
- NBKENGINE-2538 Hyper-V: DC cannot edit schedule for HyperV-job when node is down
- NBKENGINE-2097 When one changes the media type of an unassigned volume, it does not update the media type until the entire feature is refreshed.
- NBKENGINE-2392 ReportManager does not show column BackupObject by default with useful content
- NBKENGINE-2416 EJB logs contains massive "java.lang.OutOfMemoryError: Java heap space" entries since April 27
- NBKENGINE-2503 Cannot Restore from Backup Server using Alias
- NBKENGINE-2845 Organizations of differential depending jobs can not be reset to No_Organization
- NBKENGINE-2906 Setting a clone target to 'none' gives an unhandled exception in the window
- NBKENGINE-3013 Vsshv cannot restore using BSA-compression (on eqlhost)
- NBKENGINE-3025 VMware Granular Item Restore to a powered off VM fails with a NBSA error
- NBKENGINE-3029 Vsshv does not respond to DC-kill
- NBKENGINE-3031 Snappy.dll crashes Vsshv
- NBKENGINE-3035 DCWMI export with check of NICs fails
- NBKENGINE-3038 DC tries to mount "HostComponent" of HyperV for GIR-Restore
- NBKENGINE-3041 Remote Install button greyed out
- NBKENGINE-3042 Client, installed via "Remote install" feature cannot be uninstalled
- NBKENGINE-3075 HyperV DBA-restore over an existing VM leaves VM in a critical state
- NBKENGINE-3081 Schedule: Single Date starts again one year later
- NBKENGINE-3102 User with limited perms still gets welcome panel with ability for configuration
- NBKENGINE-2506 HyperV restore with destination (non-GIR)
- NBKENGINE-2681 HyperV-restore still fails under some conditions, import VM throws errors.
- NBKENGINE-2857 tapemac --mmcheck dies unexpectedly
- NBKENGINE-2885 MediaCheck: single tape and STP clones are not shown

- NBKENGINE-2920 vsshv backup fails, but is committed
- NBKENGINE-2938 Wrong tape label (volser) when cloning to STP (Single Tape Pool)
- NBKENGINE-2954 Fehler Hyper-V Cluster
- NBKENGINE-2962 HyperV Cluster 2008: VM hv-menueservice is not member of cluster
- NBKENGINE-2975 HyperV Cluster 2012R2: missing component
- NBKENGINE-2983 Linux: create multiplexer runs into NullPointerException
- NBKENGINE-2984 Remove mediapool fails
- NBKENGINE-3023 Solaris/SPARC installer names
- NBKENGINE-3044 A "Online" backup of a VM on w2012r2 cannot be restored, wrong VM-config
- NBKENGINE-3048 DCWMI import VM fails if Destination-dir for VHDs does not exist.
- NBKENGINE-3061 RCMD thread usage and deadlock
- NBKENGINE-3062 Importing a VM saved to a GIR-pool complains about missing "Saved State"
- NBKENGINE-3074 DCWMI with vm-info fails at customers-site
- NBKENGINE-3079 User management: monitoring misses active jobs (organization)
- NBKENGINE-3212 VMware backup to GIR pool via HOTADD: VMware.exe may crash

Known Issues

- NBKENGINE-3044 Restore of a "online" VM with checkpoints requires additional manual work (wrong VM-config)

Version 6.1 (June 2016)

Improvements, Features and Enhancements

- NBF-36 Default Configuration
- NBF-38 SQL 2016
- NBKENGINE-2149 VMware backup: Allow to choose transport mode for backups (to GIR pool) and replication

Notable Resolved Issues

- NBKENGINE-2871 VMware backups leave VM guests in need of disk consolidation.
- NBKENGINE-2764 Running a maintenance operation on a GIR pool fails
- NBKENGINE-2931 Hyper-V direct GIR backup fails
- NBKENGINE-2964 Unable to restore VMware backup jobs from 5.x after update
- NBKENGINE-2951 Unable to attach library to backup server, error No SCSI drives found.
- NBKENGINE-2954 Fehler Hyper-V Cluster
- NBKENGINE-2975 HyperV Cluster 2012R2: missing component
- NBKENGINE-2417 Scheduler stopped working / EJB hardly responsive: "Unable to acquire a new connection from the pool" in EJB logs
- NBKENGINE-2682 Failures when handling a disk pool with blanks in its name
- NBKENGINE-2710 Cannot save files/restore files from a gir pool that has umlauts in its name
- NBKENGINE-2761 GIR pool maintenance fails having 'merge' option set
- NBKENGINE-2872 BMR restore fails.

- NBKENGINE-2884 DC 6.0: openejb.log files are not in C:\ProgramData\Novastor\DataCenter\openejb\logs
- NBKENGINE-2919 Alias field is not cleared when a different media pool is selected from the list
- NBKENGINE-2958 DC allows host names containing underscore ("_")
- NBKENGINE-2959 Unable to backup VMware machines from a 2008 proxy.
- NBKENGINE-2963 rcmd-executor takes too much memory
- NBKENGINE-2981 HyperV GIR backups fail
- NBKENGINE-2920 vsshv backup fails, but is committed

Version 6.0 (April 2016)

Improvements, Features and Enhancements

- NBKENGINE-2108 Clear archive bit option for files backed up from VSS snapshot
- NBKENGINE-2114 Identification of tape library and drives by hardware id
- NBKENGINE-2128 When creating a backupserver, make exception in the windows firewall
- NBKENGINE-2158 backup of hyper-v host component
- NBKENGINE-2191 Robustness improvement for tape mediapool maintenance
- NBKENGINE-2219 Standard Compliant Job Reporting Artifacts
- NBKENGINE-2221 Memory / Throughput Performance / Robustness / Scalability
- NBKENGINE-2237 Scheme based GIR pool retention/synthetization
- NBKENGINE-2240 notesbu.c: incremental backup date filter check
- NBKENGINE-2247 Tape Media Pool Check
- NBKENGINE-2294 Derby DB: increase width of specific columns
- NBKENGINE-2378 Support non-default vCenter server HTTPS port
- NBKENGINE-2544 Support replicating/restoring to a datastore cluster
- NBKENGINE-2554 Doing 'Attach library' a user should actively set the media type
- NBKENGINE-2597 Performance tuning: Network traffic performance tuning
- NBKENGINE-2670 Shared utility library for standard DC backup clients
- NBKENGINE-2762 Create a VMware function to get host information like #cores
- NBKENGINE-2763 Allow to restore from alternative device
- NBKENGINE-2810 NBSA Mount Improvement
- NBKENGINE-2821 NBSA Robustness Improvement
- NBKENGINE-2255 Obtain correct IP of Windows client by resolving hostname
- NBKENGINE-2886 Support ADK for Windows 10
- NBKENGINE-2896 hui: check Hiback.log entry for path+listfile

Notable Resolved Issues

- NBKENGINE-2258 log/results/nodename: map nodename to lowercase
- NBKENGINE-2339 Update disk mediapool config "clonetarget" when multiplexer port has changed
- NBKENGINE-2354 Updating a node does not give any error messages if the user does not have the required rights
- NBKENGINE-2374 Using Organizations with schedules and edit media pools throws null pointer exceptions
- NBKENGINE-2389 rcmd-executor appcrash c0000005/000000000018653
- NBKENGINE-2406 xml export of reports contains illegal characters in tags
- NBKENGINE-2408 VMware restore: Selecting an alternative datastore may fail with "Error receiving data"
- NBKENGINE-2410 VMware Proxy Configuration: Change credentials / Add server may fail with "Could not add VMware proxy..."
- NBKENGINE-2414 ExecutionPlanResults: panel takes ages to display results
- NBKENGINE-2418 BMR Backup and executable does not start causing EJB Exception
- NBKENGINE-2421 Script Job hangs in Monitoring - EJB exception
- NBKENGINE-2422 A very big Disk-savefile (>2 TB) cannot be restored.
- NBKENGINE-2438 "An error occurred while reading the Datamover logs"
- NBKENGINE-2443 Warning in libnbsa shutdown
- NBKENGINE-2444 Return code request: Storage pool not found or misconfigured
- NBKENGINE-2476 hiscsi: detect adapters above #9
- NBKENGINE-2481 Multiple/Single update node via nodemanager hangs if a node is unreachable
- NBKENGINE-2482 DataCenter GUI does not start under Solaris
- NBKENGINE-2515 "Connectivity Test" issues if VM job has 1st and 2nd Media Pool configured and one of them is a GIR pool
- NBKENGINE-2523 Retention doesn't remove remnants - list and tape index files, files anymore
- NBKENGINE-2529 User is able to create Single Tape Pool with spaces in name
- NBKENGINE-2530 User can not edit Disk Pool with spaces in the name
- NBKENGINE-2550 5.3.4: vm restore starts, reads, fails with dba_read fails
- NBKENGINE-2553 notesbu: Hiback\tmp\notesbu.log contains corrupted entries from log backups
- NBKENGINE-2569 Hyper-V Virtual machines listed in the backup job configuration are not sorted.
- NBKENGINE-2613 Client installation on x86 version of Debian Linux does not install correctly
- NBKENGINE-2623 Failed to make CentOS 6 x64 to a Backup Server
- NBKENGINE-2625 Trying to add a tape library or look at the tape library MM tab if there is a tape with no label in the library fails.
- NBKENGINE-2631 Connectivity Test in Backup Jobs ignores 'Multiplexing' option
- NBKENGINE-2641 Createpool command does not set in poolname in poolfile
- NBKENGINE-2650 hiserv/multiplexer ignores EOT in set_nt_filemark
- NBKENGINE-2651 VMware.exe fails to read VMware.ini and <host>.ini
- NBKENGINE-2652 MediaCheck does not work when all media are exported
- NBKENGINE-2655 Result of erroneous tape retention is not shown in SystemMessages
- NBKENGINE-2658 Wrong default image format for Hyper-V backups
- NBKENGINE-2664 Failed ReaR backup is shown as successfull
- NBKENGINE-2665 change function VHDGetDiskChains() in LIBVHD.dll

- NBKENGINE-2667 Client registering with IP 127.0.1.1 will change command server default address
- NBKENGINE-2671 VMware backup from vCenter fails with "Cannot connect to the host"
- NBKENGINE-2677 VMware backup to non-GIR pool fails if using non-default vCenter server HTTPS port
- NBKENGINE-2678 HostIniConverter fails because cannot find libstorage.dll
- NBKENGINE-2679 VMware backup, replication, restore doesn't work if HiBack isn't installed in DC home
- NBKENGINE-2680 When upgrading to 5.3.1+ the installer log contains existing VM host passwords
- NBKENGINE-2688 hiserv 32 does not run on Win2003
- NBKENGINE-2690 Single tape as clonetarget: SCSI address is missing
- NBKENGINE-2693 VMware.exe crashes when backing up to GIR pool
- NBKENGINE-2705 Cannot remove VMware server having a port assigned
- NBKENGINE-2706 VMware server shown as offline if a port is assigned
- NBKENGINE-2707 Restore of a Mac VM fails with "config.hardware.device not found"
- NBKENGINE-2715 Linux backup server: monitoring of maintenance does not stop
- NBKENGINE-2716 VMware backups to GIR pool where always run using full scheme
- NBKENGINE-2722 rcmd-executor runs out of threads
- NBKENGINE-2723 Linux backup server: Mail reporting of disk pool maintenance end is missing
- NBKENGINE-2727 Trying to restore a VM job gives an error
- NBKENGINE-2759 rcmd_executor: AppCrash
- NBKENGINE-2766 GUI restore: restore-only permission is not allowed to browse for alternate destination
- NBKENGINE-2767 BMR Backup fails on systems with MS Storage Pools
- NBKENGINE-2768 TapeLibraryManagement: attach mux fails with GUI exception
- NBKENGINE-2777 SFR from hyperv shows as failed when it actually did the restore
- NBKENGINE-2778 GIR pool description when creating a disk pool says GIR pool is only for VMware.
- NBKENGINE-2779 Trying to create a GIR disk pool with backup gen per node fails with an error of input string.
- NBKENGINE-2780 GIR pool details does not show what type of 'retention' is used.
- NBKENGINE-2783 Unable to select GIR pool for VMware backup if the VMware proxy is not the backup server.
- NBKENGINE-2807 Restore of HyperV VM from GIR pool fails.
- NBKENGINE-2809 Reporting: restart failed backup job fails
- NBKENGINE-2811 notesbu: correct Hiback\tmp\notesbu.log date is read wrong
- NBKENGINE-2819 rcmd-executor tmp files will not be deleted
- NBKENGINE-2820 Connectivity test to gir pool failed
- NBKENGINE-2824 Trying to restore a VMware job will fail and exit with an error
- NBKENGINE-2831 HyperV backup to non GIR pool fails with build_v560_20160218_b742_beta
- NBKENGINE-2833 notesbu.exe: notesbu.log entry appendix missing when backup is successful
- NBKENGINE-2837 vsshv createdbas should delete content of target folder
- NBKENGINE-2718 HyperV backup job: NPE when trying to save job having "All VMs" selected
- NBKENGINE-2852 reporting should show the status line colored, also if not restorable
- NBKENGINE-2853 saving multi vm/dba results missing complete overview
- NBKENGINE-2866 VMware.log wrong stamp entry

- NBKENGINE-2812 VMware Replication: Column "Name" empty in reporting
- NBKENGINE-2502 Media Management: retention expiration is shown wrong
- NBKENGINE-2731 Adding Organization to backup job: diff job loses full/diff relationship
- NBKENGINE-2906 Setting a clone target to 'none' gives an unhandled exception in the window
- NBKENGINE-2908 "About" tooltip contains unexpected character

Known Issues

- NBKENGINE-2568 Multiple simultaneous Hyper-V jobs from a cluster or single server fail to backup more than one job at a time.
- NBKENGINE-2839 Hyper-V cross-restore fails if Network-switch-names are different.
- NBKENGINE-2838 Hyper-V restore of VMs with snapshots fails on Win2008.

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